COMPUTER SCIENCES CORPORATION

USE

UNBIASED SYSTEMS ENGINEERING

WITH "UNBUNDLING"

The reassessment period following the separate pricing of hardware, software, and services has focused the attention of many computer users on questions concerning their present operations and future needs . . . questions such as:

- What was the real cost of systems engineering and programming services formerly received as part of the hardware package?
- What degree of cost/performance effectiveness is currently being realized from the hardware and systems now being used?
- Considering any supplier's natural tendency to develop systems and programs best suited to the capabilities and limitations of his own hardware, would it be advisable to obtain systems engineering and programs from a company with no hardware interests?
- What company has the depth and breadth of experience to provide consulting, systems engineering, and programming services tailored to individual customer requirements?

To answer these questions, Computer Sciences Corporation, the world's largest information sciences company, offers a unique service: USE . . . Unbiased Systems Engineering.

UNBIASED SYSTEMS ENGINEERING

TO ENHANCE YOUR COMPUTATIONAL CAPABILITIES

The USE Service:

USE — CSC's Unbiased Systems Engineering service — puts virtually unlimited capabilities at your disposal . . . the same capabilities that have made CSC the world's largest independent company in the information sciences.

With USE, the effective consultation between the client and CSC Systems Engineers defines the scope and direction of the services performed, from short-term trouble shooting to long-range system planning.

With USE, clients can draw on professional services that include: software structuring and design for new and expanded applications; data gathering and systems requirements analyses; testing of new software systems; conversion and implementation planning; determination and objective recommendation of an optimum hardware/software configuration; and evaluation of cost/performance effectiveness.

With USE, the client has the assurance of dealing with a company having no manufacturing interests . . . a company whose systems recommendations are based solely on total systems performance and economy.

With USE, companies of any size can now harness the same superior software know-how that has made CSC the choice of the Nation's largest industrial and government organizations . . . and at a cost tailored to specific requirements.

The USE Method:

USE is available to companies of all sizes on a highly flexible contractual basis. For more information and assistance in planning your company's systems engineering needs, contact your CSC Marketing Representative. He will show you how USE can add to the productivity of your operation.

The USE Personnel:

CSC Systems Engineers are software and computer system veterans who have years of intensive experience in systems and application programs and are thoroughly familiar with all major hardware configurations and software applications. Each is supported by a multi-disciplinary professional organization. On-the-job, CSC Systems Engineers supply your operation with flexible consultation to solve daily systems problems and to map the most productive long-term development plans. The high caliber of the CSC Systems Engineer is the key to USE; the result is responsiveness.

FROM CSC

- Computer Sciences Corporation — by any measure the world's largest company devoted to the design, development and management of information systems.
- An unequalled array of professional talent combining data system design and application implementation experience with communication systems know-how . . . all geared to provide total systems support for USE clients.
- A solid, highly-qualified technical management team consisting of senior information sciences specialists who offer proven management capabilities directly related to USE client backgrounds.
- A professional organization more than 4,000 strong, committed to the support of USE clients.
- A company perspective that is the broadest in the industry, encompassing on-the-job systems design and engineering for every major computer manufacturer, and for a majority of large-scale computer users in industry and government.

CSC

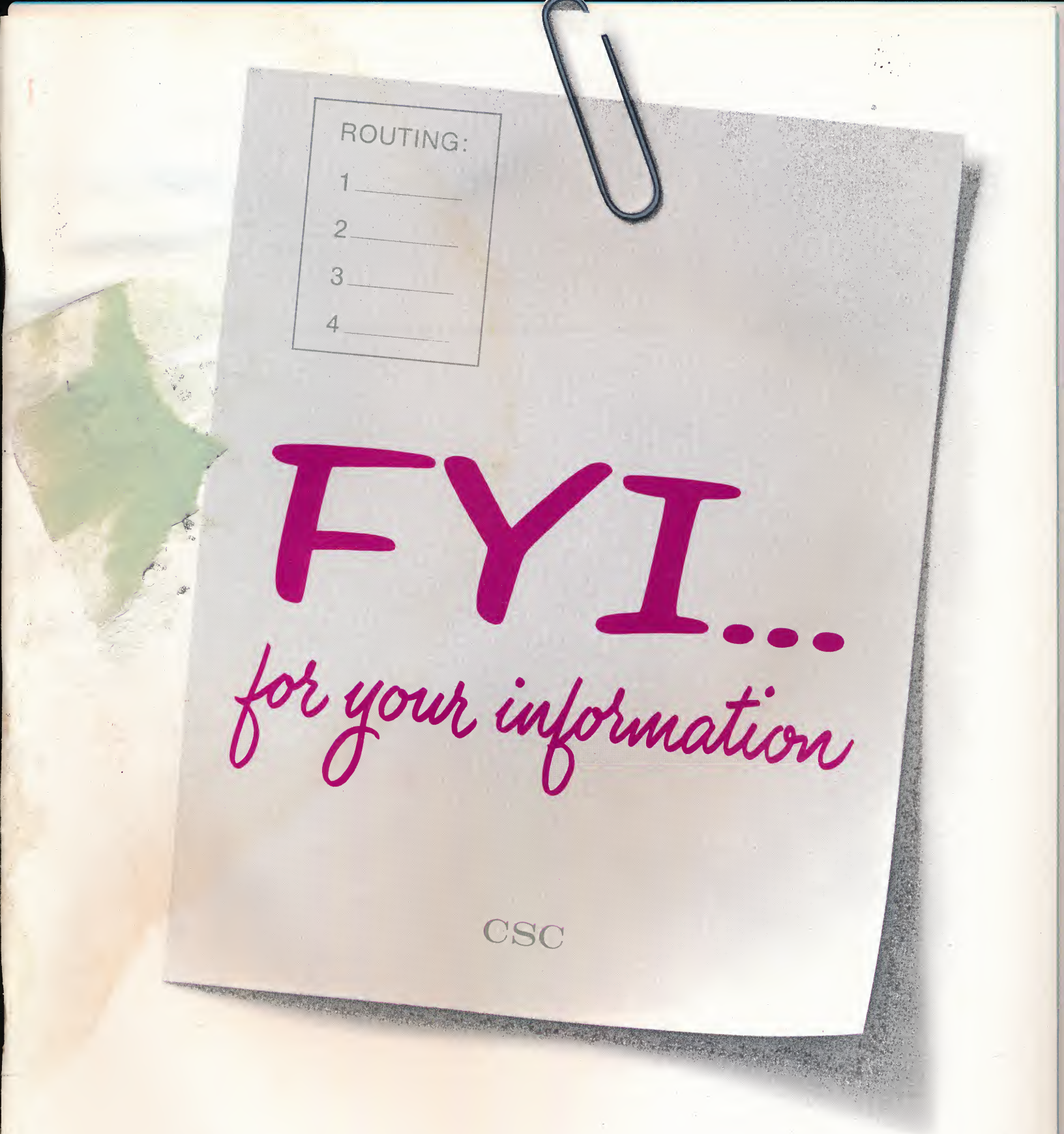
Systems Division

COMPUTER SCIENCES CORPORATION

Offices and Facilities in Principal Cities Throughout the United States, Canada, Europe, and the Pacific Area

Printed in U. S. A.

122-A



COMPUTER SCIENCES CORPORATION

FYI...

For Your Information, Computer Sciences Corporation has prepared this catalogue of publications. It presents both:

- *Descriptive brochures featuring the Company, its services, and its proprietary products, and*
- *Selected CSC REPORTS, periodic discussions of developments in computer software and communications technology, including those CSC endeavors which represent an advancement in the state-of-the-art.*

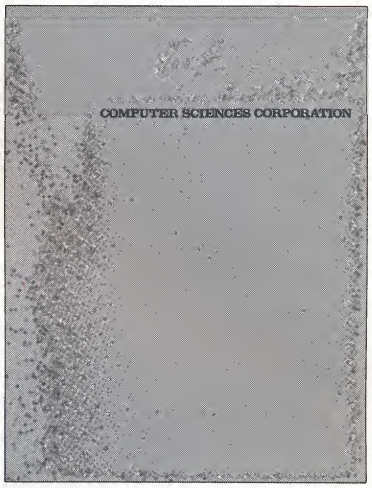
For your convenience, postage-free postcards, coded to correspond with the various publication numbers indicated, are positioned in the back of this catalogue. You are cordially invited to circle on one card the numbers of those publications in which you have an interest and mail the card to CSC. Those publications will be forwarded to you in an early mail. The remainder of the cards are for the convenience of others in your organization who may have individual interests in the same or other publications. A complete index to all CSC REPORTS is available upon written request on your company or organization letterhead.

Computer Sciences Corporation is a total systems design and development company. The services, products, and activities described in the referenced publications are representative of CSC, an organization whose business is systems and which dedicates itself to a total support effort. They mirror the professional experience of the Nation's leading independent computer software firm, the first such firm to be listed on the New York Stock Exchange. Since its founding more than a decade ago, CSC has become a major source for the development and implementation of computer software, computer-based communications, and specialized systems and services. CSC has performed systems engineering, systems analysis, design, programming, simulation, testing, implementation, and computer facility management services for many of the Nation's leading computer users; other services are in the fields of urban planning, utilities engineering and architectural design, and related interdisciplinary activities. Its clientele includes a substantial number of the "Fortune 500" companies, every major manufacturer of computing hardware, large civilian and military agencies of the Federal Government, and leading private institutions.

Without compromising the most rigid of standards, CSC has assembled one of the largest staffs of professional data and communications systems specialists in the world. This staff presents the highest level of experience and education among comparable organizations in the information sciences. Leading technically-oriented staff members are at the MA, MS, and PhD levels.

Seasoned management personnel include former presidents of leading corporations in the information sciences field, civilian governmental officials, senior military commanders, financial and industrial specialists, engineers and technologists in all the established disciplines, and managers of large computer-oriented complexes.

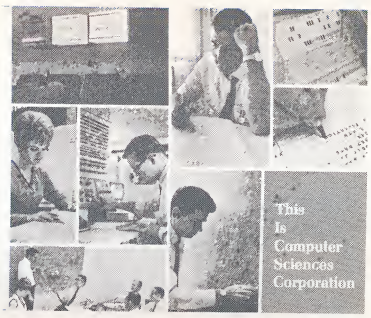
On any basis—technical superiority, efficient and prompt performance, number of working systems designed and programs completed, dollar volume of business, financial responsibility, or by other meaningful comparison—Computer Sciences Corporation leads its field.



001

Computer Sciences Corporation

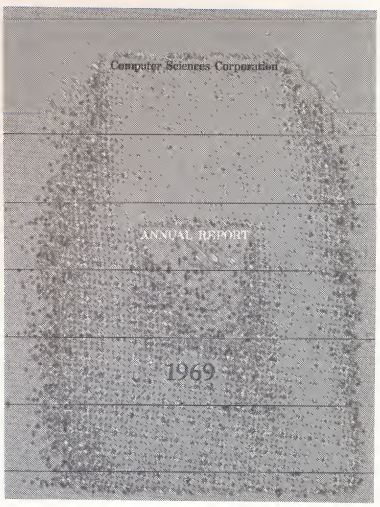
This introduction to CSC is a reflection of the Company's historical pattern of innovative leadership in an industry which is not much older than the company itself—the rapidly expanding science of using computer technology in problem solving. Also involved are capabilities in environmental research, urban planning, and architecture and engineering.



101

This Is Computer Sciences Corporation

The questions, "Who is CSC?" and "What does CSC do?", are answered with brief descriptions of the principal areas of computer software systems applications.



106

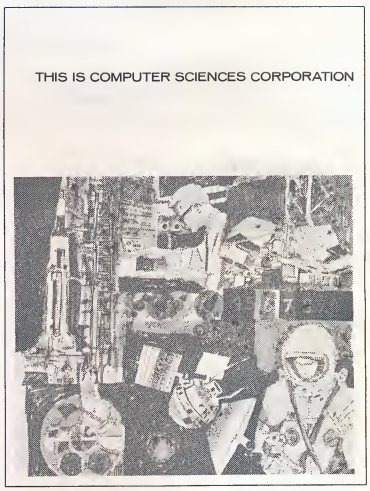
ANNUAL REPORT

The annual report published by Computer Sciences Corporation for the most recently completed fiscal year. CSC closes its fiscal year as of the last business day in March of each calendar year.

107

The CSC Digest

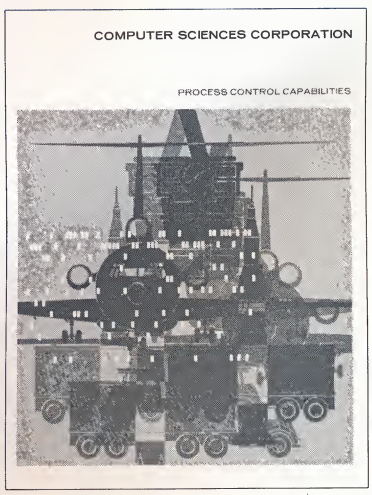
Sample news stories and feature articles from newspapers and periodicals around the world are presented in booklet format. These publications describe various CSC activities and system capabilities as seen by editors and financial writers.



111

This Is Computer Sciences Corporation

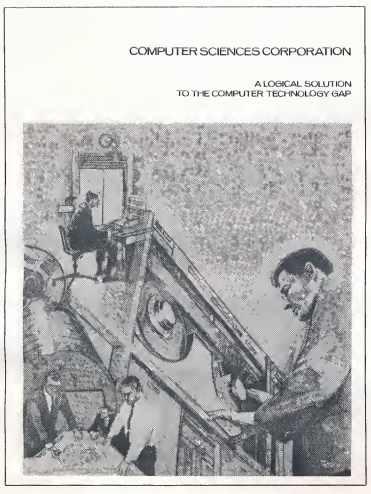
Systems management contracts involving total support are a speciality with CSC. Applied sciences, systems programming, information systems, command and control systems, management information, education services, and facilities management are elements of systems management at CSC.



115

Process Control Capabilities

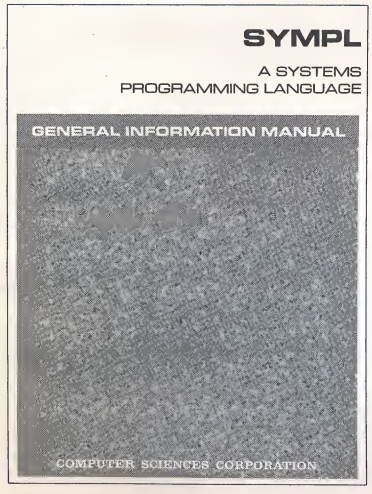
Direct, automatic control of a process can lower operations costs and increase process throughput, providing an environment highly conducive to continuous operation of repeatable processes. CSC's capabilities in various process control areas are described.



116

A Logical Solution To The Computer Technology Gap

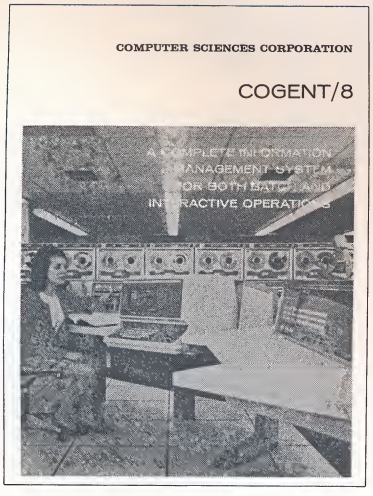
An exciting new concept of teaching, the Structured Learning Technique, was developed by the Computer Sciences Institute. Elements have been packaged as an operational entity and offer, in addition, specialized training for senior managers, middle managers, and technical managers.



119

SYMPL: A Systems Programming Language

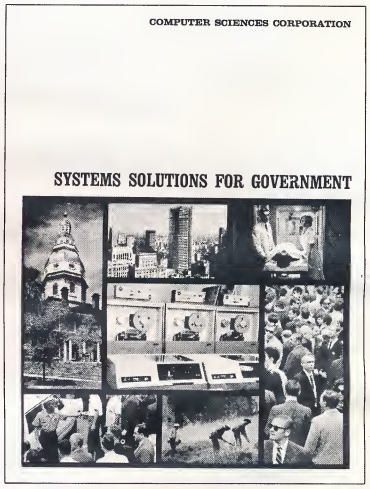
This abbreviated manual describes SYMPL, a high-level language developed for use in the creation of a variety of standard systems programming products; as a source language for compilers, SYMPL can reduce time and costs materially.



120

COGENT/8

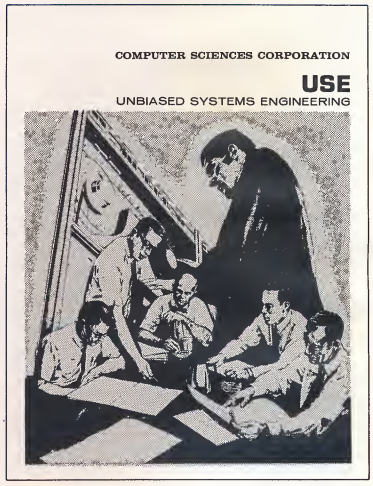
Developed by CSC and comprising modular subsystems, COGENT/8 provides a powerful information and file management capability for users of UNIVAC 1106 or 1108 computers. Five basic levels of COGENT/8 can be provided.



121

Systems Solutions For Government

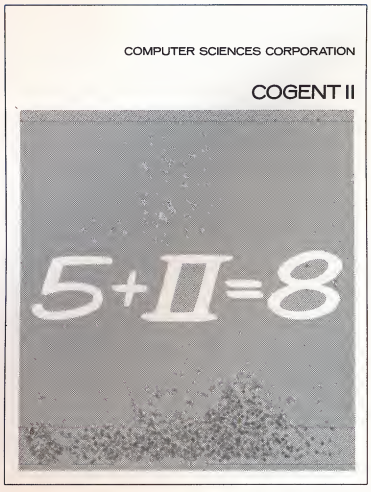
Capabilities of CSC in the areas of public and highway safety, economic and community development, transportation, health, welfare, education, fiscal management, and environment and natural resources are presented, with particular emphasis on state and local interests.



122

USE: Unbiased Systems Engineering

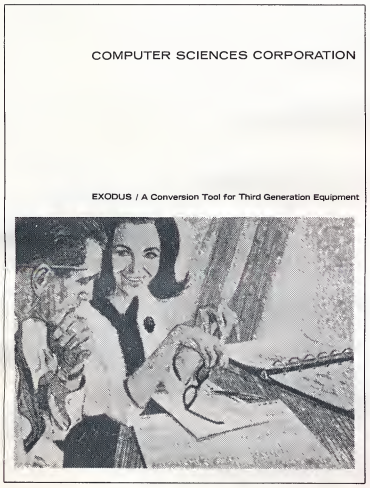
This brief gatefold examines USE as a superior service tailored to the user's needs. Also discussed are CSC systems engineers as their functions and experience relate to productive, long-range development plans.



201

COGENT II—5 + II = 8

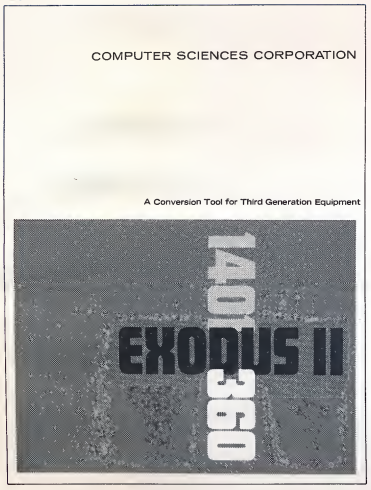
When COGENT II is installed, a staff of five good programmers can produce the work of eight or nine. COGENT II is a file management system, a high-level programming language, a shorthand COBAL, and a report generator.



202

EXODUS I / A Conversion Tool For Third Generation Equipment

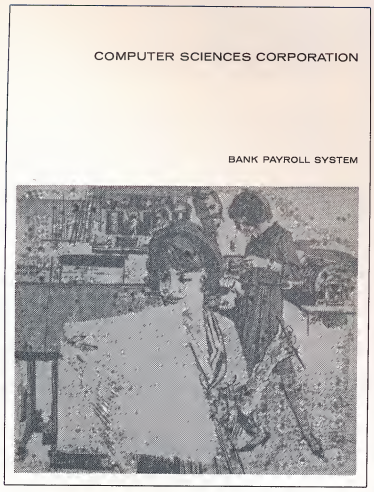
EXODUS is a translation system which converts Autocoder source decks to System/360 Basic Assembly Language (BAL). It converts up to 95% of typical 1410/7010 Autocoder programs.



203

EXODUS II / A Conversion Tool For Third Generation Equipment

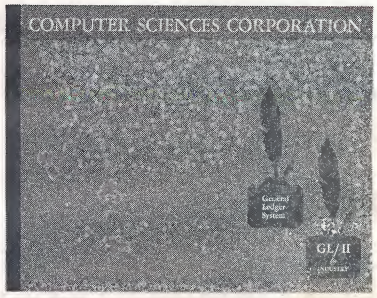
1401 Autocoder or SPS source decks are converted to System/360 Basic Assembly Language (BAL), translating and executing programs for either DOS or OS.



204

Bank Payroll System

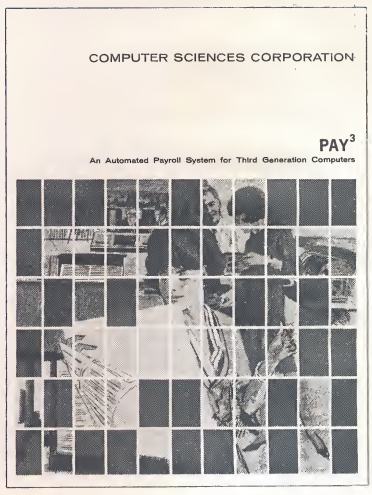
Profitable customer service for aggressive banks results from the comprehensive range of pre-programmed, automatically available operations incorporated in the system design.



206-A, B, C, D

General Ledger System — GL/II

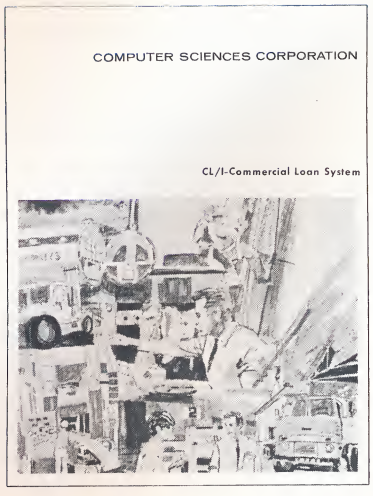
Most accounting professionals and many businessmen spend too much time performing tedious tasks — little time is left for business development or financial counseling. Four separate brochures discuss the respective problems of (A) accountants, (B) banks, (C) industry, and (D) service bureaus.



207

PAY³ Payroll System

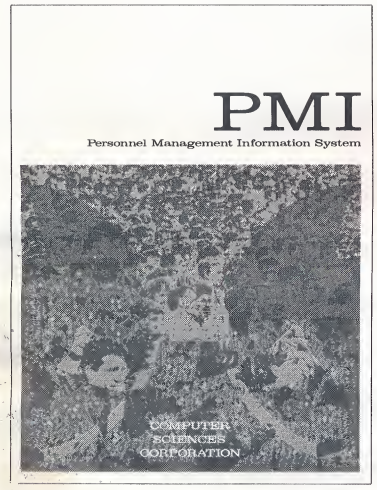
This brochure describes a system for any industry, commercial organization, or governmental agency employing sufficient personnel to utilize third generation hardware for payroll processing.



208

CL/I—Commercial Loan System

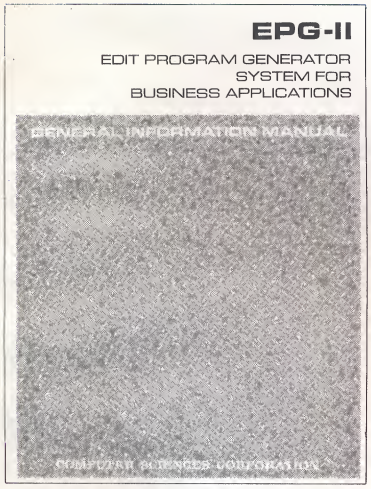
Banks whose commercial loan portfolios are of such size and complexity as to require modern management information reporting and loan accounting techniques are offered the first-ever third generation computer software commercial loan system through this brochure.



209

PMI Personnel Management Information System

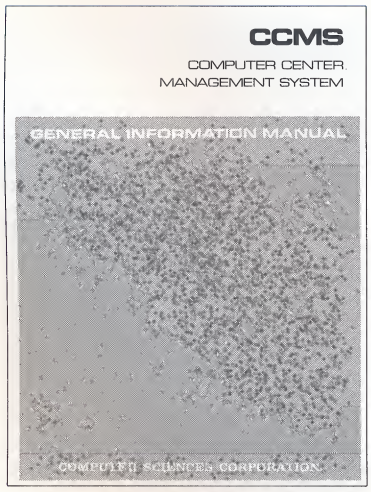
The brochure describes the complete system, designed and programmed to meet all known requirements for personnel planning, management, administration, records-keeping, and reporting.



260

EPG-II

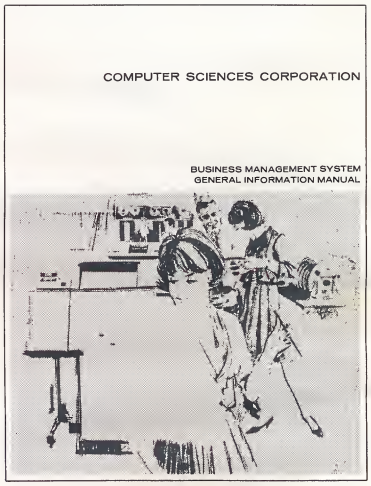
This Edit Program Generator for Business Applications is a tested and proven proprietary product of CSC, created and designed to bring reality in line with the ideal edit. An edit language of some 60 mnemonics provides the user with full language capability.



261

CCMS

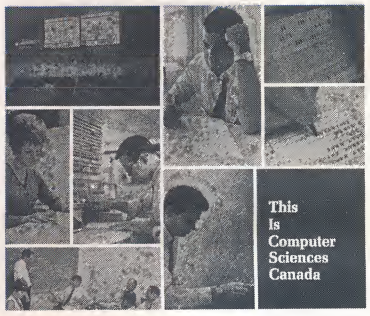
CCMS—Computer Center Management System—is a monitoring tool for the computer center executive. CCMS enables the DP manager to monitor the use of machines, the consumption of materials, and the performance of personnel.



263

Business Management System

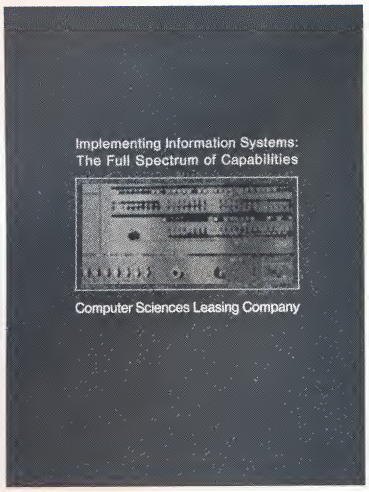
Described in General Information Manual form are the functions of this system designed to separate the businessman and his staff from tedious bookkeeping and accounting procedures. BMS incorporates informative, complete reports for accurate control of inventory, accounts receivable, sales analyses, etc.



303

This Is Computer Sciences Canada

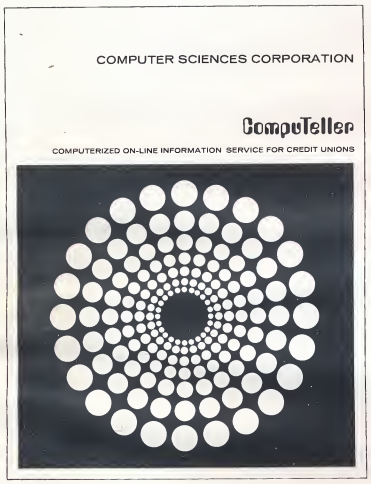
Computer Sciences Canada, Ltd., functioning as an affiliate of CSC, offers Canadian computer users and systems-oriented executives all of the services rendered by the parent corporation.



305

Implementing Information Systems: The Full Spectrum of Capabilities

Described are the activities of Computer Sciences Leasing Company in providing business and governmental organizations with one source for both hardware and the many support functions essential to the operation of an effective data processing facility.



306

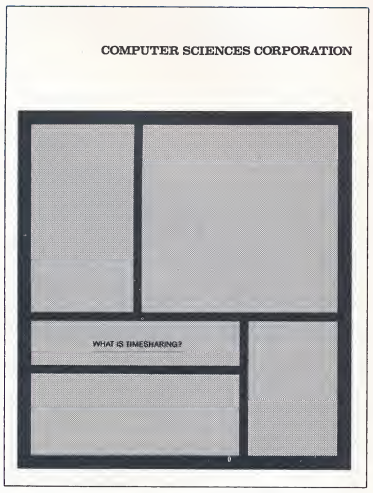
CompuTeller: Computerized On-Line Information Service

Presents both on-line customer service features and off-line management information features of a currently operating data system service for both credit unions and savings & loan associations.

308

CompuFlight II

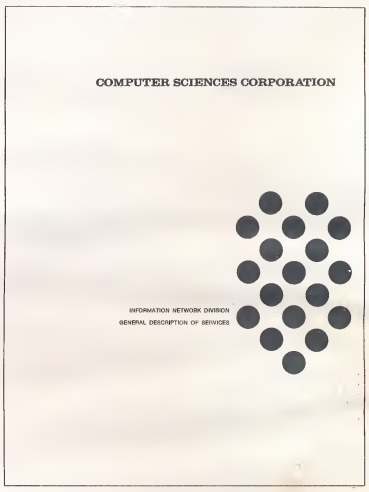
Describes the CSC CompuFlight II computerized system, designed to serve commuter and regional airlines throughout the world for on-line reservations, interline reservations, management reporting, and data transmission, available on a service payment basis.



310

What Is Timesharing?

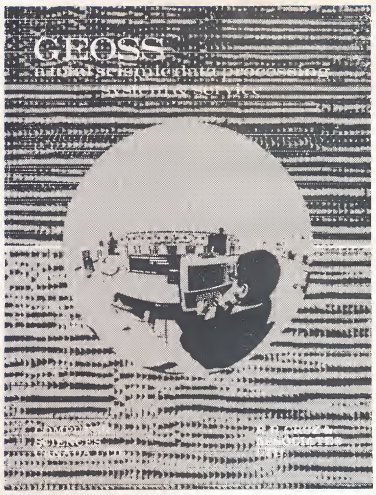
On a general information basis, this brochure discusses timesharing as a foremost aid in decision making, delivered in one of the fastest, most economic modes of computer utilization yet devised. The CSC Information Network Division, INFONET, also is presented.



311

Information Network Division: General Description of Services

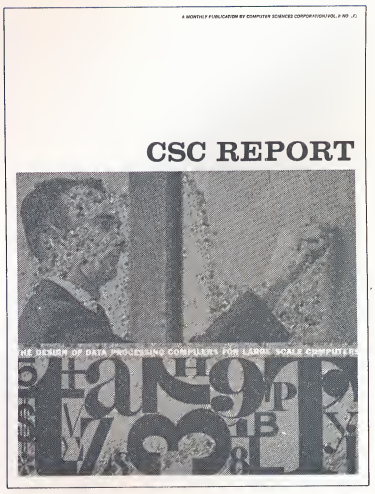
A conversational share in a complete computer/communications network is offered the user. The brochure describes three types of service — BASIC, Conversational Remote Job Entry, and Remote Job Entry — to accommodate the full range of informational areas.



318

GEOSS—A Total Seismic Data Processing System & Service

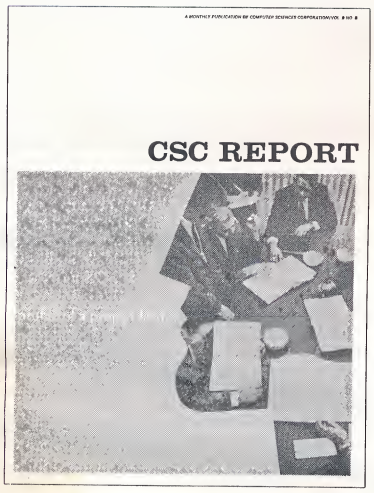
A realistic comprehension of the duality of geophysical data processing involves recognition of the facts that 1) the massive data to be processed requires a computerized system, and 2) the nature of the data requires the continuing services of professional geophysicists.



406

CSC REPORT—The Design of Data Processing Compilers for Large Scale Computers

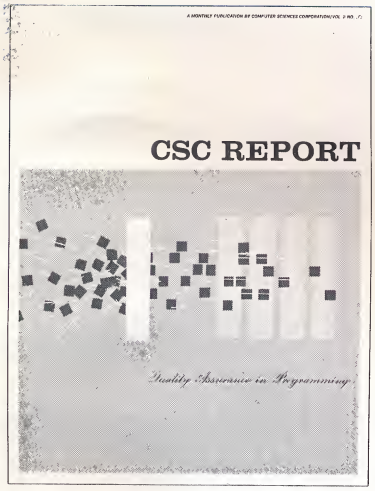
Considerations in compiler design must incorporate the definition of arithmetic rules, the collation sequence, characteristics of auxiliary storage, limitations on identifier length in construction of the source program, and the character set.



408

CSC REPORT — Profile of a Project Leader

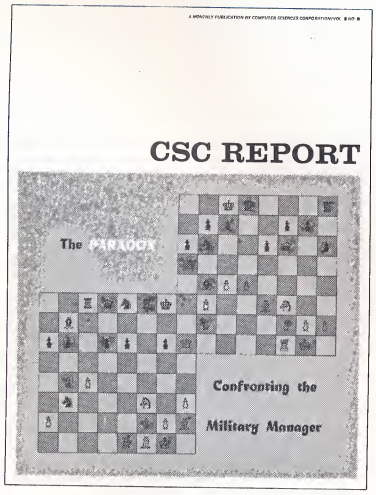
As the size and complexity of programming projects increase, the direction of these undertakings has received the intensive scrutiny of management with a principal focus on the root of all aches, pains, and accomplishments — the project leader.



411

CSC REPORT — Quality Assurance in Programming

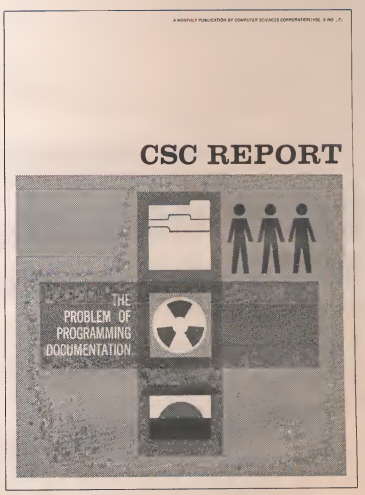
Quality is ensured by careful planning in the early phases of a project — not by just planning the type of tests to be used when a project reaches the checkout phase, but by total planning of the project.



420

CSC REPORT—The Paradox Confronting the Military Manager

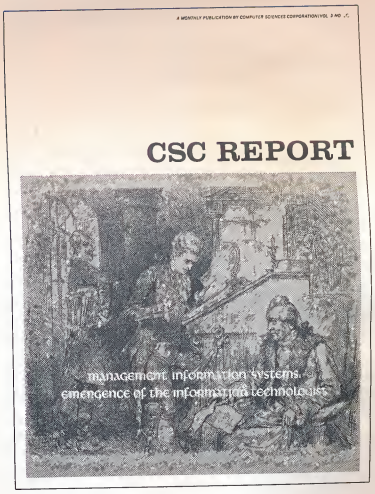
Today's Military Manager finds himself required to be increasingly responsive to two basically antithetical policies governing the expenditure of military resources: cost reduction and increased effectiveness.



422

CSC REPORT — The Problem of Programming Documentation

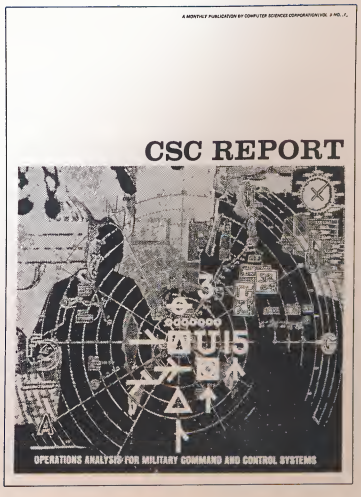
Just as the engineer is required to prepare plans, descriptions, standards, requirements, and operating procedures, so must the programmer. His task includes the use and preparation of documentation.



430

CSC REPORT — Management Information Systems: Emergence of the Information Technologist

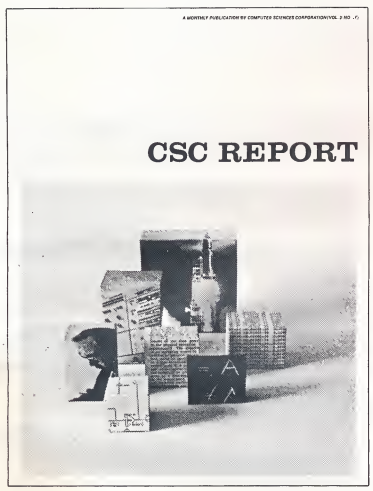
Management continues to re-evaluate computer utilization; stress is on the ability of the machine to provide information to aid in managerial decision-making. The report reflects the impact on the computer professional.



433

CSC REPORT—Operations Analysis for Military Command and Control Systems

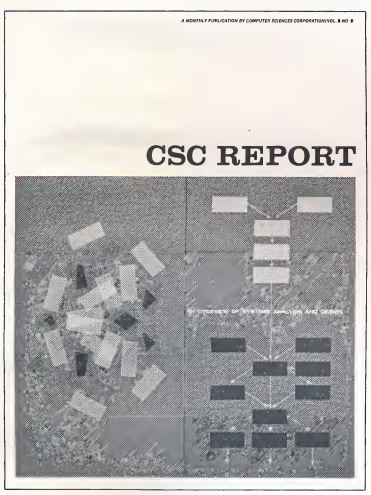
The report outlines the principal objective of an operations analysis, which results in the development of both hardware and software performance specifications for a system which enables effective and timely management control of military forces.



435

CSC REPORT — Simulation

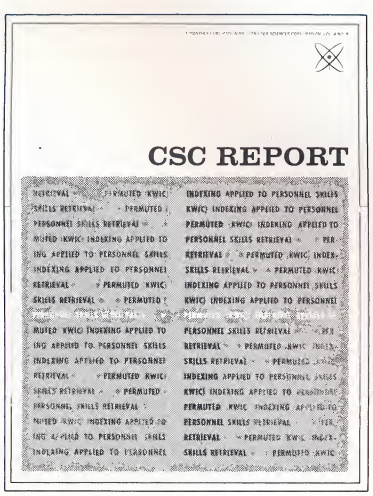
Most examples of simulation can be classed as "representation of one thing by another." Analog/hybrid simulation analysts, however, are interested in a much more intricate and far more precise use of simulation.



437

CSC REPORT — An Overview of Systems Analysis and Design

The developmental process for an information system follows orderly, logical steps from concept, through preliminary studies and definition, to integration of parts into the whole, and — fully documented — to operational usage.



440

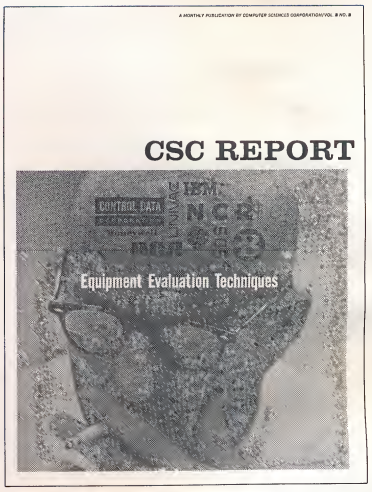
CSC REPORT—Permuted Resume-Indexing System

Professional services to government and industry require the maintenance and control of a complete, up-to-date, attractively printed set of resumes of technical staff members, together with a means of avoiding tedious and wasted time in their identification and selection.

446

CSC REPORT — Software Configuration Management

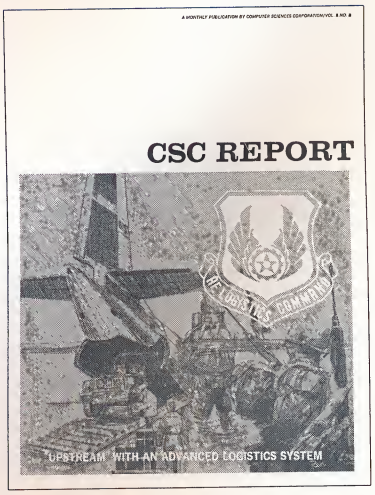
Software configuration management as the key to efficient and economical design and implementation of computerized information systems is a concept worthy of thoughtful consideration by all echelons of management and data processing professionals.



447

CSC REPORT — Equipment Evaluation Techniques

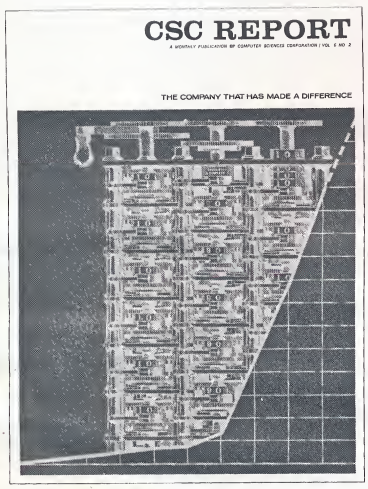
To realize the optimum in effective computer usage, software productivity — the true determinant of system performance — must be considered first. Sooner or later, the problems described or implied are faced by all major users of computing hardware.



448

CSC REPORT — "Upstream" With An Advanced Logistics System

An Advanced Logistics System Master Plan defines objectives, concepts, system requirements, and the characteristics of an advanced, integrated logistics management system for the United States Air Force Logistics Command.



449

CSC REPORT — The Company That Has Made A Difference

Computer Sciences Corporation observed its tenth corporate anniversary in April, 1969. The Company's first decade is reviewed, and the policies, practices, procedures, and corporate character which chart its future are examined.

450

CSC REPORT — New Horizons In Communications

An expected major impact on future communications systems concepts will be that made by large scale integration of components and circuits. Decreases in size, cost, and weight open new vistas in thinking regarding implementable concepts, especially in advanced digital techniques.

451

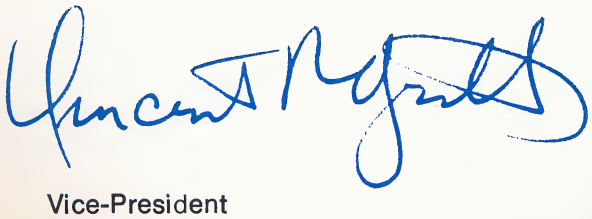
CSC REPORT — PROF-E: Computer-Aided Instruction For Shipboard Training

The report describes a Navy training package and technique known as Programmed Review of Operator Functions-Elementary. Personnel can train in an operational mode, off duty, and without supervision.

"FYI" — For Your Information — presents categories of computer software and total systems endeavors at CSC. For a client company or governmental agency, however, the individual endeavor is individually undertaken, designed to fill the specific needs of a client at a particular moment in time, together with those which may be anticipated for the future. A client's problems never are treated as ones simply falling into a routine category. CSC regards each opportunity to serve as an individual challenge.

If your company, agency, institution, or organization seeks a truly optimum solution to a specialized problem, contact CSC for a preliminary discussion. There is, of course, no obligation. Please direct your inquiry to:

Mr. Vincent R. Grillo



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